

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (previously presented): A multi-layer thermal imaging receptor comprising:

a first support coated with at least:

 a heat sensitive releasable transfer layer coated on the first support, wherein the heat sensitive releasable transfer layer further comprises a bleaching agent;

 an interfacial bonding layer coated on the heat sensitive releasable transfer layer; and

 an image receiving layer coated on the interfacial bonding layer and adapted to adhere to a second support when heated;

wherein the interfacial bonding layer is adapted to enhance adhesion between the heat sensitive releasable transfer layer and the image receiving layer.

2 (original): The multi-layer thermal imaging receptor of claim 1 wherein the first support is plain paper, coated paper, glass, polymeric films or mixtures thereof.

3 (original): The multi-layer thermal imaging receptor of claim 1 wherein the first support is a polyester film.

4 (original): The multi-layer thermal imaging receptor of claim 1 wherein the second support is plain paper, thin paper, coated paper, glass, polymeric films or mixtures thereof.

5 (original): The multi-layer thermal imaging receptor of claim I wherein the second support is thin paper.

6 (original): The multi-layer thermal imaging receptor of claim 1 wherein the heat sensitive releasable transfer layer is adapted to substantially separate from the first support upon heating.

7 (original): The multi-layer thermal imaging receptor of claim 1 wherein the heat sensitive releasable transfer layer comprises polyvinyl butyral.

8 (original): The multi-layer thermal imaging receptor of claim 7 wherein hydroxyl moieties of the polyvinyl butyral react with the interfacial bonding layer.

9 (original): The multi-layer thermal imaging receptor of claim 7 wherein the polyvinyl butyral is present in an amount of from about 4.95wt% to about 20wt% based on the total weight of the heat sensitive releasable transfer layer.

10 (canceled):

11 (previously presented): The multi-layer thermal imaging receptor of claim 1 wherein the bleaching agent is adapted to bleach infrared dye.

12 (previously presented): The multi-layer thermal imaging receptor of claim 1 wherein the bleaching agent crystallizes in the image receiving layer at ambient temperature.

13 (previously presented): The multi-layer thermal imaging receptor of claim 1 wherein the bleaching agent is soluble in methyl ethyl ketone.

14 (previously presented): The multi-layer thermal imaging receptor of claim 1 wherein the bleaching agent is diphenylguanidine.

15 (previously presented): The multi-layer thermal imaging receptor of claim 1 wherein the interfacial bonding layer is adapted to permit migration of the

bleaching went from the heat sensitive releasable transfer layer into the image receiving layer upon heating.

16 (previously presented): The multi-layer thermal imaging receptor of claim 1 wherein the bleaching agent is present in an amount of from about 2 to about 22 wt% based on the total weight of the heat sensitive releasable transfer layer.

17 (original): The multi-layer thermal imaging receptor of claim 1 wherein the heat sensitive releasable transfer layer further comprises a texturizing material.

18 (original): The multi-layer thermal imaging receptor of claim 17 wherein the texturizing material comprises polymethyl methacrylate beads.

19 (original): The multi-layer thermal imaging receptor of claim 17 wherein the polymethyl methacrylate beads are present in an amount of from about 0.05wt% to about 3.0 wt% based on the total weight of the transfer layer.

20 (original): The multi-layer thermal imaging receptor of claim 1 wherein the heat sensitive releasable transfer layer is a thin film, solvent extruded coating.

21 (original): The multi-layer thermal imaging receptor of claim 20 wherein the solvent is methyl ethyl ketone.

22 (original): The multi-layer thermal imaging receptor of claim 1 wherein the interfacial bonding layer comprises a maleic anhydride modified ethylene copolymer.

23 (original): The multi-layer thermal imaging receptor of claim 1 wherein the interfacial bonding layer is a thin film, solvent extruded coating.

24 (original): The multi-layer thermal imaging receptor of claim 23 wherein the solvent is toluene or a solvent blend of toluene and methyl ethyl ketone.

25 (original): The multi-layer thermal imaging receptor of claim 1 wherein the image receiving layer is further adapted to be tack-free at ambient conditions.

26 (original): The multi-layer thermal imaging receptor of claim 1 wherein the image receiving layer is further adapted to be color stable.

27 (original): The multi-layer thermal imaging receptor of claim 1 wherein the image receiving layer comprises a thermoplastic adhesive.

28 (original): The multi-layer thermal imaging receptor of claim 27 wherein the thermoplastic adhesive is present in an amount of from about 4.95 wt% to about 38 wt% based on the total weight of the thermoplastic adhesive image receiving layer.

29 (original): The multi-layer thermal imaging receptor of claim 1 wherein the image receiving layer comprises styrene butadiene.

30 (original): The multi-layer thermal imaging receptor of claim 29 wherein the styrene butadiene reacts with hydrophobic moieties of the interfacial bonding layer.

31 (original): The multi-layer thermal imaging receptor of claim 1 wherein the image receiving layer comprises a plasticizer.

32 (original): The multi-layer thermal imaging receptor of claim 31 wherein the plasticizer is present in an amount of from about 0.05 wt% to about 10 wt% based on the total weight of the image receiving layer.

33 (original): The multi-layer thermal imaging receptor of claim 1 wherein the image receiving layer is a thin film solvent extruded coating.

34 (original): The multi-layer thermal imaging receptor of claim 33 wherein the solvent is toluene.

35 (original): A multi-layer thermal imaging receptor comprising:
a first support coated with at least:
a heat sensitive releasable transfer layer coated on the first
support comprising:

polyvinyl butyral;
a bleaching agent; and
a texturizing material

an interfacial bonding layer covering the heat sensitive
releasable transfer layer comprising:
a maleic anhydride modified ethylene copolymer; and
an image receiving layer covering the interfacial bonding
layer and adapted to adhere to a second support when heated comprising:
styrene butadiene; and
a plasticizer;

wherein the interfacial bonding layer is adapted to enhance adhesion between the
heat sensitive releasable transfer layer and the image receiving layer.

36 (original): The multi-layer thermal imaging receptor of claim 35
wherein the first support is plain paper, coated paper, glass, polymeric films or
mixtures thereof.

37 (original): The multi-layer thermal imaging receptor of claim 35
wherein the substrate is a polyester film.

38 (original): The multi-layer thermal imaging receptor of claim 35
wherein the bleaching agent of the heat sensitive releasable transfer layer is
diphenylguanidine.

39 (original): The multi-layer thermal imaging receptor of claim 35
wherein the texturizing material of the heat sensitive releasable layer is polymethyl
methacrylate beads.

40 –52 (canceled):

53 (previously presented): A multi-layer thermal imaging receptor comprising:

a first support coated with at least:

a heat sensitive releasable transfer layer coated on the first support;

an interfacial bonding layer coated on the heat sensitive releasable transfer layer; and

an image receiving layer coated on the interfacial bonding layer and adapted to adhere to a second support when heated, wherein the image receiving layer comprises styrene butadiene;

wherein the interfacial bonding layer is adapted to enhance adhesion between the heat sensitive releasable transfer layer and the image receiving layer.

54 (previously presented): A multi-layer thermal imaging receptor comprising:

a first support coated with at least:

a heat sensitive releasable transfer layer coated on the first support;

an interfacial bonding layer coated on the heat sensitive releasable transfer layer; and

an image receiving layer coated on the interfacial bonding layer and adapted to adhere to a second support when heated;

wherein the interfacial bonding layer comprises a maleic anhydride modified ethylene copolymer and is adapted to enhance adhesion between the heat sensitive releasable transfer layer and the image receiving layer.

55 (canceled):